SONY

Product Data Sheet

PE/Cyanine5 anti-human CD185 (CXCR5)

Catalog # / Size: 2384760 / 100 tests
2384755 / 25 tests

Clone: J252D4

Isotype: Mouse IgG1, κ

Immunogen: Human CXCR5-transfected cells

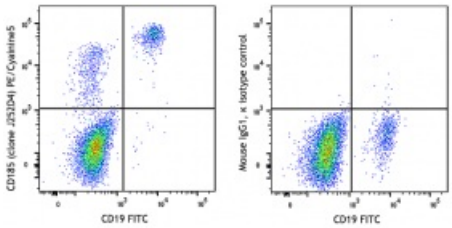
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Workshop Number: HCDM listed

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD19 FITC and CD185 (CXCR5) (clone J252D4) PE/Cyainine5 (left) or mouse IgG1, κ PE/Cyanine5 isotype control (right).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The epitope recognized by MI15 is found within the ectodomain of the CD138 core protein. It has been reported that MI15 blocks the binding of clone B-B4 but not clone DL-101 by flow cytometric analysis. Clones DL-101 and MI15 exhibit differential staining patterns on *in vitro* generated plasma cells and some $CD138^+$ cell lines.[4]

Additional reported applications for the relevant formats include: immunofluorescent staining[1], Western blotting[2], and immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections[3].

Application References:

1. Costes V, *et al.* 1999. *Hum. Pathol.* 30:1405. (IF)
2. Gattei V, *et al.* 1999. *Br. J. Haematol.* 104:152. (WB)
3. Bologna-Molina R, *et al.* 2008. *Oral Oncol.* 44:805. (IHC)
4. Itoua MR, *et al.* 2014. *Biomed. Res. Int.* 2014:536482.

Description: CD185, also known as CXCR5, is a 42 kD G-protein coupled receptor with seven transmembrane regions. CXCR5 is expressed by mature B cells, follicular helper T cells, Burkitt's lymphoma cells and a subset of neurons, and mediates cell migration to the B cell follicles in the secondary lymphoid organs. The ligand of CXCR5 is CXCL13 (BLC).

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Antigen References:
1. Ma CS, *et al.* 2012. *J. Exp. Med.* 209:1241.
2. León B, *et al.* 2012. *Nat. Immunol.* 13:681.
3. Crotty S. 2011. *Annu. Rev. Immunol.* 29:621.
4. Kerfoot SM, *et al.* 2011. *Immunity* 34:947.
5. Sáez de Guinoa J, *et al.* 2011. *Blood* 118:1560.